

Anti-ERK2 Antibody [C3B12-R]

HA601201



Product Type:	Recombinant Mouse monoclonal IgG1, primary antibodies
Species reactivity:	Human, Mouse, Rat
Applications:	WB
Molecular Wt:	Predicted band size: 41 kDa
Clone number:	C3B12-R

Description: Mitogen-activated protein kinase (MAPK) signaling pathways involve two closely related MAP kinases, known as extracellular-signal-related kinase 1 (ERK 1, p44) and 2 (ERK 2, p42). Growth factors, steroid hormones, G protein-coupled receptor ligands, and neurotransmitters can initiate MAPK signaling pathways. Activation of ERK1 and ERK2 requires phosphorylation by upstream kinases such as MAP kinase kinase (MEK), MEK kinase and Raf-1. ERK1 and ERK2 phosphorylation can occur at specific tyrosine and threonine sites mapping within consensus motifs that include the Threonine-Glutamate-Tyrosine motif. ERK activation leads to dimerization with other ERKs and subsequent localization to the nucleus. Active ERK dimers phosphorylate serine and threonine residues on nuclear proteins and influence a host of responses that include proliferation, differentiation, transcription regulation and development. The human ERK2 gene maps to chromosome 22q11.21 and encodes a 360-amino acid protein.

Immunogen: Recombinant protein within human ERK2 aa 200-360.

Positive control: HeLa cell lysate, Jurkat cell lysate, A549 cell lysate, A431 cell lysate, HepG2 cell lysate, HEK-293 cell lysate, NIH/3T3 cell lysate, RAW264.7 cell lysate, C6 cell lysate, human brain tissue lysate, mouse brain tissue lysate, rat brain tissue lysate.

Subcellular location: Cytoplasm, cytoskeleton, spindle, Nucleus, microtubule organizing center, centrosome, Membrane, caveola, Cell junction, focal adhesion.

Database links: SwissProt: P28482 Human | P63085 Mouse | P63086 Rat

Recommended Dilutions:

WB 1:1,000-1:2,000

Storage Buffer: PBS (pH7.4), 0.1% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.

Storage Instruction: Store at +4°C after thawing. Aliquot store at -20°C. Avoid repeated freeze / thaw cycles.

Purity: Protein A affinity purified.

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Orders:0086-571-88062880

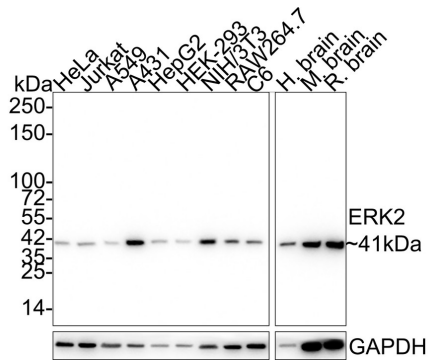
Technical:0086-571-89986345

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Images

Fig1: Western blot analysis of ERK2 on different lysates with Mouse anti-ERK2 antibody (HA601201) at 1/1,000 dilution.



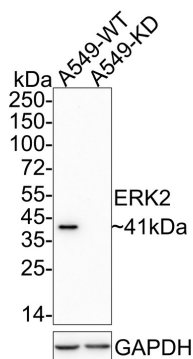
Lane 1: HeLa cell lysate (20 µg/Lane)
 Lane 2: Jurkat cell lysate (20 µg/Lane)
 Lane 3: A549 cell lysate (20 µg/Lane)
 Lane 4: A431 cell lysate (20 µg/Lane)
 Lane 5: HepG2 cell lysate (20 µg/Lane)
 Lane 6: HEK-293 cell lysate (20 µg/Lane)
 Lane 7: NIH/3T3 cell lysate (20 µg/Lane)
 Lane 8: RAW264.7 cell lysate (20 µg/Lane)
 Lane 9: C6 cell lysate (20 µg/Lane)
 Lane 10: Human brain tissue lysate (40 µg/Lane)
 Lane 11: Mouse brain tissue lysate (40 µg/Lane)
 Lane 12: Rat brain tissue lysate (40 µg/Lane)

Predicted band size: 41 kDa
 Observed band size: 41 kDa

Exposure time: 43 seconds; ECL: K1801;
 4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (HA601201) at 1/1,000 dilution was used in 5% NFDM/TBST at 4°C overnight. Alpaca Anti-Mouse IgG - HRP for IP Nano-Secondary Antibody (NBI02H) at 1/5,000 dilution was used for 1 hour at room temperature.

Fig2: Western blot analysis of ERK2 on different lysates with Mouse anti-ERK2 antibody (HA601201) at 1/2,000 dilution.



Lane 1: A549-si NT cell lysate (10 µg/Lane)
 Lane 2: A549-si ERK2 cell lysate (10 µg/Lane)

Predicted band size: 41 kDa
 Observed band size: 41 kDa

Exposure time: 1 minute; ECL: K1801;
 4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (HA601201) at 1/2,000 dilution was used in 5% NFDM/TBST at room temperature for 2 hours. Goat Anti-Mouse IgG - HRP Secondary Antibody (HA1006) at 1/50,000 dilution was used for 1 hour at room temperature.

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Note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

Background References

1. Wang VY. et. al. Bcl3 Phosphorylation by Akt, Erk2, and IKK Is Required for Its Transcriptional Activity. *Mol Cell*. 2017 Aug 3;67(3):484-497.e5.
2. Schwebs DJ. et. al. Dictyostelium Erk2 is an atypical MAPK required for chemotaxis. *Cell Signal*. 2018 Jun;46:154-165.

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